



Gulf of Mexico Harmful Algal Bloom Bulletin

6 August 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: July 30, 2007

Conditions Report

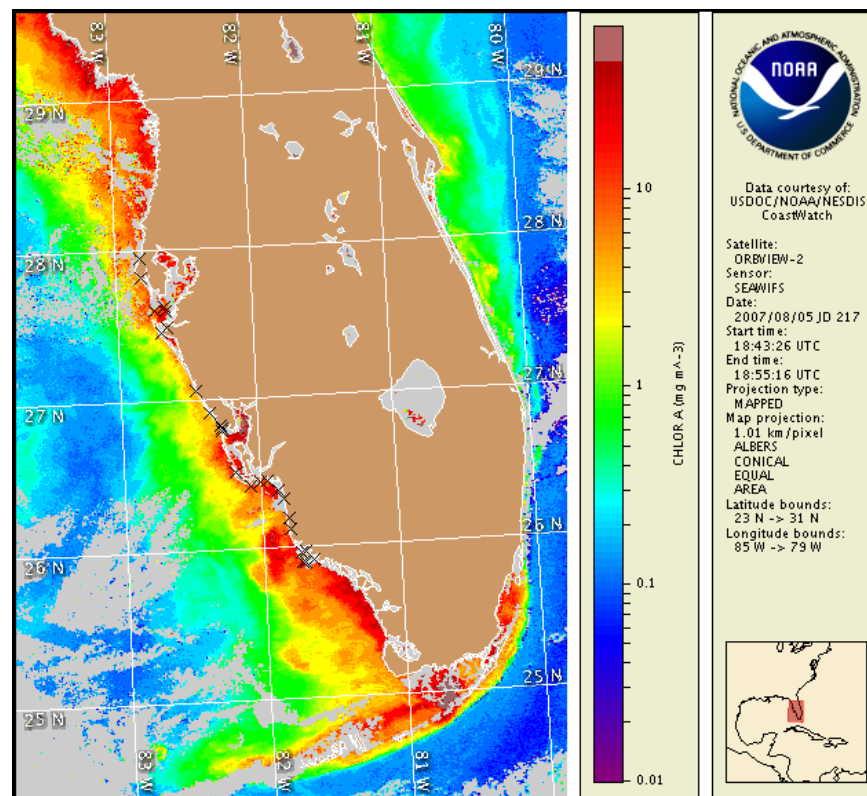
There is currently no indication of harmful algal bloom presence alongshore southwest Florida. No impacts are expected in any of the Florida counties today through Sunday, August 12.

Analysis

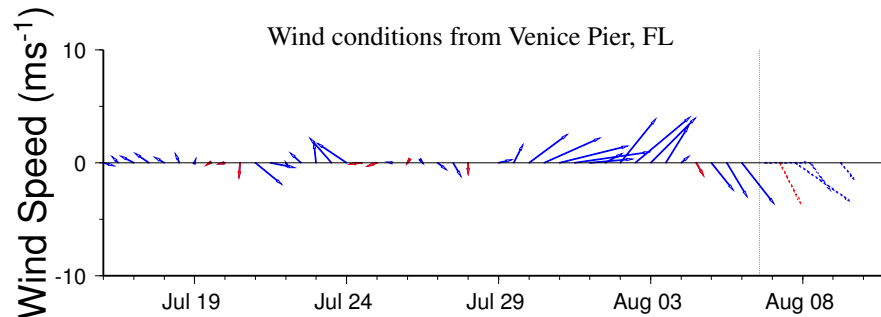
Recent samples indicate that the harmful algae *Karenia brevis* is not currently present along the coast of southwest Florida (FWRI, 7/30-8/1). Satellite imagery (8/5) indicates patches of high chlorophyll along the coast from Lee to Monroe County, including the Keys, due to continued presence of nonharmful algae. High chlorophyll levels ($>20\mu\text{g/L}$) were detected in a patch offshore Collier County from $26^{\circ}7.7'\text{N}$ $81^{\circ}56.6'\text{W}$ to $25^{\circ}48'\text{N}$ $81^{\circ}56.5'\text{W}$, along the coast of southern Lee County centered at $26^{\circ}24.1'\text{N}$ $81^{\circ}56.9'\text{W}$, and along the coast of southern Collier and northern Monroe Counties from $25^{\circ}50.1'\text{N}$ $81^{\circ}31.5'\text{W}$ to $25^{\circ}26.8'\text{N}$ $81^{\circ}12.4'\text{W}$. Sampling is recommended in these areas.

Upwelling-favorable winds later in the week increase the potential for bloom formation. Continued sampling along the coast is recommended.

- Allen, Urizar



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from July 27-August 1 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide: http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf

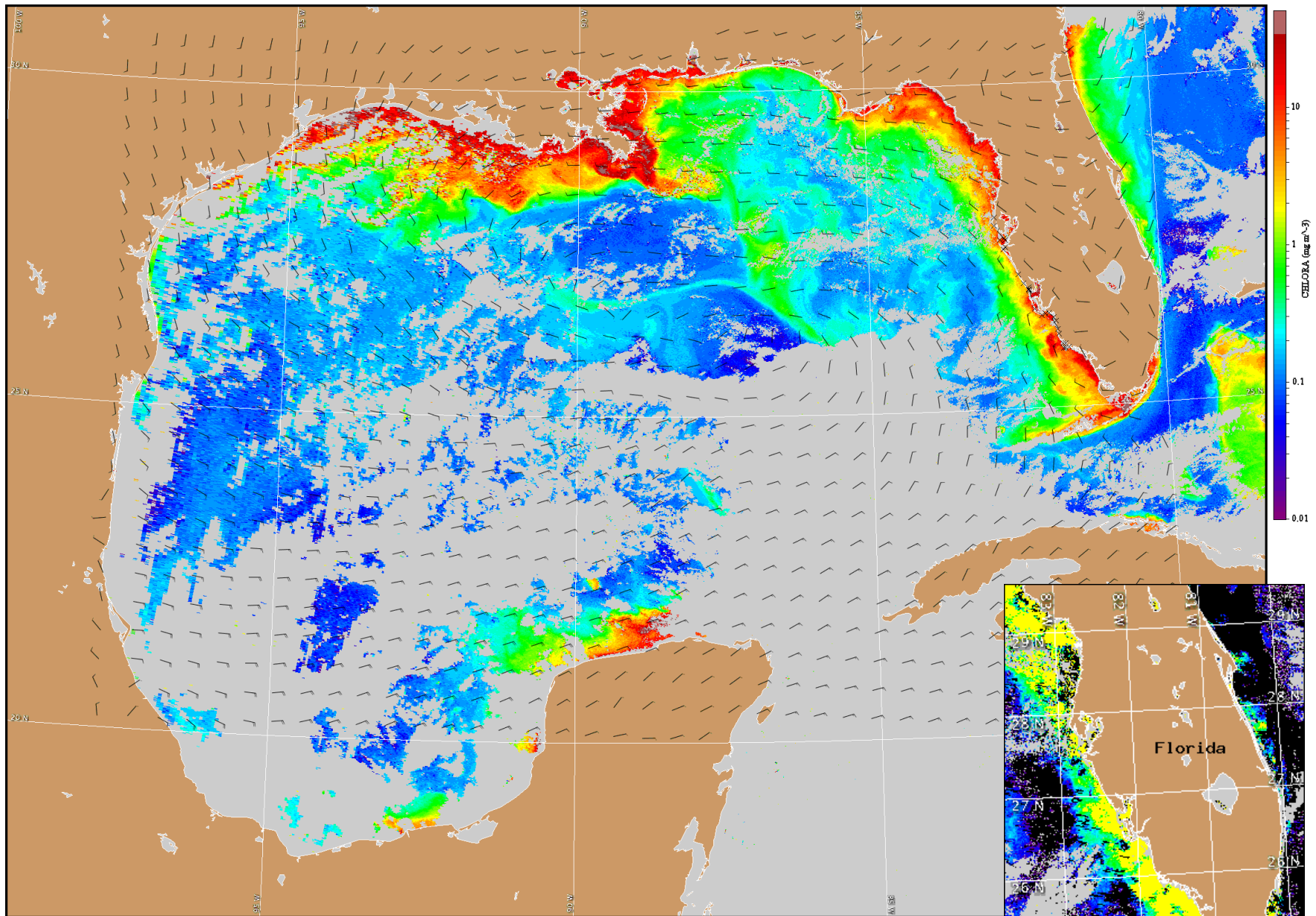


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

North to northwest winds today and tomorrow at 5 to 10 knots (3-5 m/s). Easterly winds Wednesday, becoming southeasterly Thursday and southerly Friday.

Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive GeoEye approval via the CoastWatch Program.



Satellite chlorophyll image and forecast winds for August 7, 2007 06Z with cell concentration sampling data from July 27-August 1 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide: http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf

Verified HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).